CLAIMS

What is claimed is:

1	1. A method for associating data with product abstractions comprising the steps of:
2	inspecting a first data set that includes data that corresponds to an offer to sell a
3	particular product by a particular party;
4	based on the first data set, associating said particular product with a product category
5	and
6	matching said first data set with a product abstraction based, at least in part, on the
7	product category to which said particular product corresponds.
1	2. The method of Claim 1, wherein said offer to sell a particular product by a particular
2	party is a first product offering of a plurality of product offerings; said product abstraction is
3	one of a plurality of product abstractions and each product abstraction is associated with one
4	or more product categories; and the method further comprises the steps of
5	generating mapping information associating each product offering in said plurality of
6	product offerings with one or more product abstractions in the plurality of
7	product abstractions;
8	receiving a query; and
9	generating a result set for the query based on said mapping information.
1	3. The method of Claim 2, further comprising the steps of:
2	charging a party associated a with a particular referenced entity in the result set based
3	at least in part on inclusion of said particular referenced entity in said result
4	set; and
5	determining how much to charge the party based, at least in part, on a product
6	category associated with said referenced entity.

- 1 4. The method of Claim 2, wherein the result set is a list of one or more references.
- 1 5. The method of Claim 4, wherein each reference of the list of references corresponds
- 2 to a referenced entity, and wherein each referenced entity associated with each reference in
- 3 the list of references is one of a product abstraction, a merchant, a product offering or a
- 4 product category.
- 1 6. The method of Claim 1, wherein the step of matching said first data set with a product
- 2 abstraction further comprises the steps of:
- determining that said first data set does not correspond to any product abstractions in
- 4 a plurality of existing product abstractions;
- 5 generating a new product abstraction based on said first data set; and
- 6 matching said first data set with said new product abstraction.
- 1 7. The method of Claim 1, wherein the step of determining, based on a first data set, a
- 2 product category to which a particular product corresponds further comprises the steps of:
- determining that said first data set does not correspond to any product category in a
- 4 plurality of existing product categories;
- 5 generating a new product category based on said first data set; and
- 6 associating said first data set with said new product category.
- 1 8. The method of Claim 2, wherein said result set includes a particular reference to a
- 2 particular referenced entity, and wherein the method further comprises the steps of
- providing said one or more result sets to one or more users; and
- 4 monitoring the number of times that said one or more users select said particular
- 5 reference associated with said particular referenced entity from said one or
- 6 more result sets.

- 1 9. The method of Claim 8, further comprising the step of charging a party associated
- 2 with said particular referenced entity a fee based on the number of times said one or more
- 3 users select said particular reference.
- 4 10. The method of Claim 2, wherein the step of generating a result set further comprises
- 5 generating a page that contains one or more sponsored references and one or more
- 6 unsponsored references, wherein a sponsored reference is a first reference associated with a
- 7 first referenced entity, and for which a first party associated with said first referenced entity
- 8 is charged for each inclusion of said first reference in said one or more result sets, and
- 9 wherein an unsponsored reference is second reference for which no party will be charged for
- each inclusion of said second reference in said one or more result sets.
- 1 11. The method of Claim 2, wherein the step of generating a result set further comprises
- 2 generating a page that contains one or more attributes of one or more products in one or more
- 3 particular product categories.
- 1 12. The method of Claim 2, wherein the step of generating a result set further comprises
- 2 generating a page which contains a comparison of one or more attributes of one or more
- 3 entities that are referenced in the page with one or more attributes of one or more other
- 4 entities that are referenced in the page.
- 1 13. The method of Claim 8, further comprising the step of providing, to a party associated
- 2 with said particular referenced entity, activity reports based on information generated during
- 3 the step of monitoring the number of times said one or more users selects the reference
- 4 associated with said particular referenced entity.

- 1 14. The method of Claim 2, wherein said list of references comprises a plurality of
- 2 references, and wherein the method further comprises the steps of
- displaying said plurality of references in a particular order within said result set,
- 4 determining said particular order based on a set of aspects of each reference in said
- 5 plurality of references and a set of aspects of each referenced entity to which
- 6 each reference in said plurality of references refers, wherein the aspects
- 7 comprise one or more of likelihood that a reference satisfies a query, existence
- 8 of sponsorship, and cost of sponsorship.
- 1 15. The method of Claim 2, wherein the step of generating the result set further
- 2 comprises the steps of:
- applying a similarity measure between one or more aspects of a particular reference
- and one or more aspects of a plurality of other references, wherein said
- 5 aspects include one or more aspects of the reference and one or more aspects
- of the referenced entity; and
- 7 selecting which references to include in said result set based on said similarity
- 8 measure.
- 1 16. The method of Claim 1, wherein the step of matching said first data set with a product
- 2 abstraction comprises the step of comparing an identifier corresponding to said product
- 3 abstraction to an identifier corresponding to said first data set.
- 1 17. The method of Claim 16, wherein the identifier is chosen from the group consisting
- 2 of Universal Product Code, International Standard Book Number, manufacturer,
- 3 manufacturer's part number, and model number.

- 1 18. The method of Claim 1, wherein the step of determining a product category to which
- 2 said particular product corresponds comprises the step of comparing an identifier
- 3 corresponding to said product category to an identifier corresponding to said first data set.
- 1 19. The method of Claim 18, wherein the identifier is chosen from the group consisting
- 2 of Universal Product Code, International Standard Book Number, manufacturer,
- 3 manufacturer's part number, and model number.
- 1 20. The method of Claim 1, wherein the product category maps to one or more products
- 2 abstractions, merchants, product offerings, and other product categories.
- 1 21. The method of Claim 1, further comprising the step of obtaining product information
- 2 for said first set of data by extracting the product information from an electronic catalog.
- 1 22. The method of Claim 1, further comprising the step of obtaining product information
- 2 for said first set of data by crawling web sites over the Internet.
- 1 23. The method of Claim 1, wherein said offer to sell a particular product by a particular
- 2 party is a first product offering of a plurality of product offerings; said product abstraction is
- 3 one of a plurality of product abstractions and each product abstraction is associated with a
- 4 one or more product categories; and the method further comprises the steps of
- 5 generating mapping information associating each product offering in said plurality of
- 6 product offerings with one or more product abstractions in the plurality of
- 7 product abstractions; and
- 8 revising said mapping information, wherein the step of revising comprises one or
- 9 more of the following steps:
- changing a mapping between a data set and a product abstraction;

- changing a mapping between a data set and a product offering;
- changing a mapping between a product abstraction and a product offering;
- changing a mapping between a product category and a data set;
- changing a mapping between a first product category and a second product
- 15 category;
- changing a mapping between a product category and a product abstraction;
- changing a mapping between a product category and a product offering;
- changing a product category;
- changing a product abstraction;
- 20 changing a product offering; and
- 21 changing a data set.
 - 1 24. A machine-readable medium carrying one or more sequences of instructions which,
- 2 when executed by one or more processors, causes the one or more processors to perform the
- 3 method recited in Claim 1.
- 1 25. A machine-readable medium carrying one or more sequences of instructions which,
- when executed by one or more processors, causes the one or more processors to perform the
- 3 method recited in Claim 2.
- 1 26. A machine-readable medium carrying one or more sequences of instructions which.
- 2 when executed by one or more processors, causes the one or more processors to perform the
- 3 method recited in Claim 3.
- 1 27. A machine-readable medium carrying one or more sequences of instructions which,
- when executed by one or more processors, causes the one or more processors to perform the
- 3 method recited in Claim 4.

- 1 28. A machine-readable medium carrying one or more sequences of instructions which,
- 2 when executed by one or more processors, causes the one or more processors to perform the
- 3 method recited in Claim 5.
- 1 29. A machine-readable medium carrying one or more sequences of instructions which,
- 2 when executed by one or more processors, causes the one or more processors to perform the
- 3 method recited in Claim 6.
- 1 30. A machine-readable medium carrying one or more sequences of instructions which,
- 2 when executed by one or more processors, causes the one or more processors to perform the
- 3 method recited in Claim 7.
- 1 31. A machine-readable medium carrying one or more sequences of instructions which,
- 2 when executed by one or more processors, causes the one or more processors to perform the
- 3 method recited in Claim 8.
- 1 32. A machine-readable medium carrying one or more sequences of instructions which,
- when executed by one/or more processors, causes the one or more processors to perform the
- 3 method recited in Claim 9.
- 1 33. A machine-readable medium carrying one or more sequences of instructions which,
- 2 when executed by one or more processors, causes the one or more processors to perform the
- 3 method recited in Claim 10.
- 1 34. A machine-readable medium carrying one or more sequences of instructions which,
- 2 when executed by one or more processors, causes the one or more processors to perform the
- 3 method recited in Claim 11.

- 1 35. A machine-readable medium carrying one or more sequences of instructions which,
- 2 when executed by one or more processors, causes the one or more processors to perform the
- 3 method recited in Claim 12.
- 1 36. A machine-readable medium carrying one or more sequences of instructions which,
- 2 when executed by one or more processors, causes the one or more processors to perform the
- 3 method recited in Claim 13.
- 1 37. A machine-readable medium carrying one or more sequences of instructions which,
- 2 when executed by one or more processors, causes the one or more processors to perform the
- 3 method recited in Claim 14.
- 1 38. A machine-readable medium carrying one or more sequences of instructions which,
- 2 when executed by one or more processors, causes the one or more processors to perform the
- 3 method recited in Claim 15.
- 1 39. A machine-readable medium carrying one or more sequences of instructions which,
- when executed by one or more processors, causes the one or more processors to perform the
- 3 method recited in Claim 16.
- 1 40. A machine-readable medium carrying one or more sequences of instructions which,
- 2 when executed by one or more processors, causes the one or more processors to perform the
- 3 method recited in Claim 17.
- 1 41. A machine-readable medium carrying one or more sequences of instructions which,
- 2 when executed by one or more processors, causes the one or more processors to perform the
- 3 method recited in Claim 18.

- 1 42. A machine-readable medium carrying one or more sequences of instructions which,
- 2 when executed by one or more processors, causes the one or more processors to perform the
- 3 method recited in Claim 19.
- 1 43. A machine-readable medium carrying one or more sequences of instructions which,
- 2 when executed by one or more processors, causes the one or more processors to perform the
- 3 method recited in Claim 20.
- 1 44. A machine-readable medium carrying one or more sequences of instructions which,
- 2 when executed by one or more processors, causes the one or more processors to perform the
- 3 method recited in Claim 21.
- 1 45. A machine-readable medium carrying one or more sequences of instructions which,
- 2 when executed by one or more processors, causes the one or more processors to perform the
- 3 method recited in Claim 22.
- 1 46. A machine-readable medium carrying one or more sequences of instructions which,
- 2 when executed by one or more processors, causes the one or more processors to perform the
- 3 method recited in Claim 23.